

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Andrew J. Goodearl et al. Art Unit : 1655
Serial No. : Examiner :
Filed : July 24, 2001
Title : OCT1P, A PROTEIN HAVING HOMOLOGY TO THE ORGANIC AND
SUGAR TRANSPORTER FAMILY OF PROTEINS, AND USES THEREOF

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the specification:

Replace the paragraph beginning at page 1, line 6 with the following rewritten paragraph:

-- This application is a continuation of application serial number 09/342,959, filed June 29, 1999, which is a continuation-in-part of application serial number 09/107,932, filed June 30, 1998. --

In the claims:

Cancel claims 1-23.

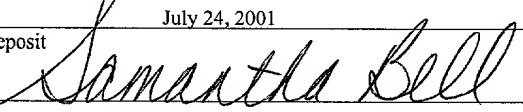
Add new claims 24-46 as follows.

-- 24. An isolated nucleic acid molecule comprising a nucleotide sequence which encodes a polypeptide comprising at least 100 contiguous amino acid residues of SEQ ID NO:12.

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Samantha Bell
Typed or Printed Name of Person Signing Certificate

25. The nucleic acid molecule of claim 24 which comprises a nucleotide sequence which encodes a polypeptide comprising at least 150 contiguous amino acid residues of SEQ ID NO:2.

26. The nucleic acid molecule of claim 25 which comprises a nucleotide sequence which encodes a polypeptide comprising at least 300 contiguous amino acid residues of SEQ ID NO:2.

27. An isolated nucleic acid molecule comprising at least 400 nucleotides and which hybridizes to the complement of the nucleic acid molecule consisting of SEQ ID NO:1 or SEQ ID NO:3 under conditions of incubation at 45°C in 6.0 X SSC followed by washing in 0.2 X SSC, 0.1% SDS at 50°C.

28. An isolated nucleic acid molecule comprising at least 400 nucleotides and which hybridizes to the complement of the nucleic acid molecule consisting of SEQ ID NO:1 or SEQ ID NO:3 under conditions of incubation at 45°C in 6.0 X SSC followed by washing in 0.2 X SSC, 0.1% SDS at 65°C.

29. An isolated nucleic acid molecule comprising a nucleotide sequence which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2 from amino acid 71 to 524.

30. An isolated nucleic acid molecule comprising a nucleotide sequence which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2.

31. An isolated nucleic acid molecule comprising a nucleotide sequence encoding a polypeptide consisting of the amino acid sequence of SEQ ID NO:2.

32. An isolated nucleic acid molecule comprising a nucleotide sequence which is at least 85% identical to the nucleotide sequence of SEQ ID NO:1, wherein the percent identity is determined using the NBLAST program with a score of 100 and a word length of 12.

33. The nucleic acid molecule of claim 36, wherein the nucleotide sequence is at least 95% identical to the nucleotide sequence of SEQ ID NO:1, wherein the percent identity is determined using the NBLAST program with a score of 100 and a word length of 12.

34. An isolated nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:1.

35. An isolated nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:3.

36. An isolated nucleic acid molecule consisting essentially of the nucleotide sequence of SEQ ID NO:3.

37. An isolated nucleic acid molecule consisting of the nucleotide sequence SEQ ID NO:3.

38. A vector comprising the nucleic acid molecule as in any one of claims 24 to 37.

39. The vector of claim 38, which includes nucleic acid sequences which regulate expression of a polypeptide encoded by the nucleic acid molecule.

40. A host cell comprising the vector of claim 38.

41. A host cell comprising the vector of claim 39.

42. A host cell comprising the nucleic acid molecule as in any one of claims 24 to 37.

43. The host cell of claim 40 which is a mammalian host cell.

44. The host cell of claim 41 which is a mammalian host cell.

45. The host cell of claim 42 which is a mammalian host cell.

46. A recombinant method for producing an isolated polypeptide comprising culturing the host cell of claim 42 under conditions in which the nucleic acid molecule is expressed. --

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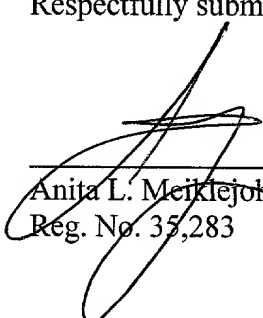
REMARKS

Attached is a marked-up version of the changes being made by the current amendment.

Applicant asks that all claims be examined. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 24 July 2001



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Version with markings to show changes made

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In the claims:

Claims 1-23 has been cancelled.

New claims 24-46 have been added.